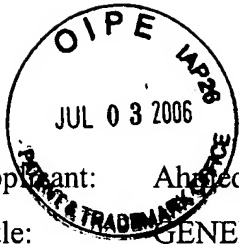


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ahmed H. Tewfik et al.

Title: GENERATING UWB-OFDM SIGNAL USING SIGMA-DELTA MODULATOR

Docket No.: 600.583US1

Serial No.: 10/693,651

Filed: October 24, 2003

Due Date: N/A

Examiner: Unknown

Group Art Unit: 2661

MS Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ Return postcard.
- ☒ Supplemental Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 8 cited documents.

If not provided for in a separate paper filed herewith, Please consider this a **PETITION FOR EXTENSION OF TIME** for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

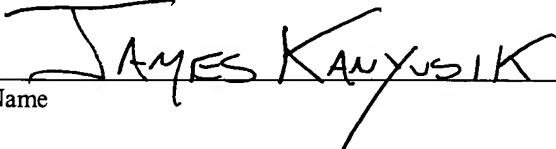
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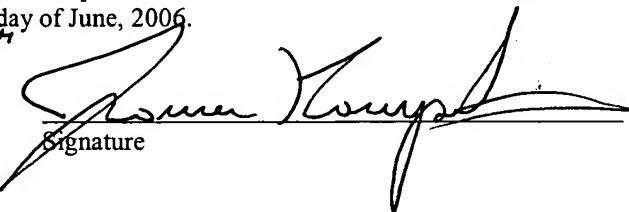
By: 

Atty: Rodney L. Lacy

Reg. No. 41,136

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 30th day of June, 2006.


Name


Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

(GENERAL)

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S/N 10/693,651

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Ahmed H. Tewfik et al.	Examiner:	Unknown
Serial No.:	10/693,651	Group Art Unit:	2661
Filed:	October 24, 2003	Docket:	600.583US1
Title:	GENERATING UWB-OFDM SIGNAL USING SIGMA-DELTA MODULATOR		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicant respectfully requests that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicant requests that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicant with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Supplemental Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Supplemental Information Disclosure Statement considered.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications, and Non-Published Applications identifiable by USPTO Serial Number, are no longer required to be provided to the Office. Notification to this effect was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004 and October 19, 2004. Thus, Applicant has not included copies of any US Patents or US Patent Applications identifiable by serial number that may be cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

AHMED H. TEWFIK ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(612) 373-6954

Date June 30, 2006

By B2.2
Rodney L. Lacy
Reg. No. 41,136

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 30th day of June, 2006.

JAMES KANYUSIK
Name

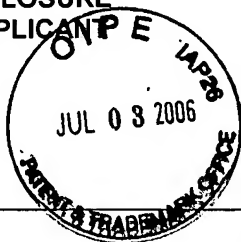
[Signature]
Signature

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	10/693,651
Filing Date	October 24, 2003
First Named Inventor	Tewfik, Ahmed
Group Art Unit	2661
Examiner Name	Unknown

Sheet 1 of 1

Attorney Docket No: 600.583US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"IEEE 802.15 WPAN High Bit Rate Alternative PHY Task Group 3a (TG3a)", http://web.archive.org/web/20030216045000/http://www.ieee802.org/15/pub/TG3a.html , (archived February 16, 2003), 2 pgs.	
		AZIZ, P. M., et al., "An Overview of Sigma-Delta Converters", <u>IEEE Signal Processing Magazine</u> , (January, 1996), 61-94	
		DE MATEO GARCIA, J. C., et al., "Effects of Bandpass Sigma-Delta Modulation on OFDM Signals", <u>IEEE Transactions on Consumer Electronics</u> , 45(2), (May, 1999), 318-326	
		SABERINIA, E., et al., "All-Digital Receiver Structures for MC-UWB Systems", <u>Proceedings, IEEE 58th Vehicular Technology Conference (VTC 2003)</u> , Vol. 1, (2003), 289-293	
		SABERINIA, E., et al., "Receiver Structures for Multi-Carrier UWB Systems", <u>Proceedings, Seventh International Symposium on Signal Processing and its Applications (ISSP 2003)</u> , (July, 2003), 313-316	
		SABERINIA, E., et al., "Single and Multi-Carrier UWB Communications", <u>Proceedings, Seventh International Symposium on Signal Processing and Its Applications (ISSPA 2003)</u> , (July, 2003), 343-346	
		SABERINIA, E., et al., "Waveform and Receiver Design for Synchronous UWB-OFDM", <u>Proceedings, 2nd IEEE International Symposium on Signal Processing and Information Technology (ISSPIT '02)</u> , (2002), 5 pgs.	
		WANG, Z., et al., "Wireless Multicarrier Communications - Where Fourier Meets Shannon", <u>IEEE Signal Processing Magazine</u> , 17(3), (May, 2000), 29-48	

EXAMINER**DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached